

INTERNATIONAL SEARCH REPORT

 Internat Application No
 PCT/DK 00398

 A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 C07K14/00 A23C9/12 C12N9/50 C12N9/62 C12N15/57
 C12N5/10 //G01N33/50

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 C07K A23C C12N G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, MEDLINE, EMBASE, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 800 849 A (HELDT-HANSEN HANS PETER ET AL) 1 September 1998 (1998-09-01) column 2, line 57 - line 67 column 3, line 1 - line 20 ---	1-21
X	WO 02 02597 A (MAXYGEN APS ;MAXYGEN HOLDINGS LTD (US)) 10 January 2002 (2002-01-10) claims 1-57 ---	1-21
Y	MICHAEL WARD ET AL: "Improved production of chymosin in aspergillus by expression as a glucoamylase-chymosin fusion" BIO/TECHNOLOGY, vol. 8, May 1990 (1990-05), pages 435-440, XP002254354 Discussion, page 439, first column --- -/--	1-21

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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Date of the actual completion of the international search

12 September 2003

Date of mailing of the international search report

02 OCT 2003

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SAGT C M ET AL: "Introduction of an N-glycosylation site increases secretion of heterologous proteins in yeasts." APPLIED AND ENVIRONMENTAL MICROBIOLOGY. UNITED STATES NOV 2000, vol. 66, no. 11, November 2000 (2000-11), pages 4940-4944, XP002254355 ISSN: 0099-2240 Discussion	1-21
P,A	--- CARDOZA R E ET AL: "Expression of a synthetic copy of the bovine chymosin gene in Aspergillus awamori from constitutive and pH-regulated promoters and secretion using two different pre-pro sequences." BIOTECHNOLOGY AND BIOENGINEERING. UNITED STATES 5 AUG 2003, vol. 83, no. 3, 5 August 2003 (2003-08-05), pages 249-259, XP002254356 ISSN: 0006-3592 figures 1-5	1-21
A	--- WALLIS G L ET AL: "Glucoamylase overexpression and secretion in Aspergillus niger: analysis of glycosylation." BIOCHIMICA ET BIOPHYSICA ACTA. NETHERLANDS 16 NOV 1999, vol. 1472, no. 3, 16 November 1999 (1999-11-16), pages 576-586, XP002254357 ISSN: 0006-3002 3.4-N-Glycosylation	1-21
A	--- EP 0 123 928 A (CODON GENETIC ENG LAB) 7 November 1984 (1984-11-07) claims 1-15	16-21
A	--- WO 01 14571 A (BOOTHE JOSEPH ; SHEN YIN (CA); KEON RICHARD GLENN (CA); ROOIJEN GJ) 1 March 2001 (2001-03-01) Genbank CAC34680 100% Identity with SEQ ID No 1	16-21
P,A	--- WO 02 063015 A (PHELPS CHRISTOPHER BENJAMIN ; DAVIDS ANDREW ROBERT (GB); FAGAN RICH) 15 August 2002 (2002-08-15) claims 1-46	16-21
E	--- WO 03 054186 A (DSM NV ; DEKKER PETRUS JACOBUS THEODORU (NL)) 3 July 2003 (2003-07-03) claims 1-12 --- -/--	16-21

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>BERKA R M ET AL: "The development of <i>Aspergillus niger</i> var. <i>awamori</i> as a host for the expression and secretion of heterologous gene products."</p> <p>BIOCHEMICAL SOCIETY TRANSACTIONS. ENGLAND AUG 1991, vol. 19, no. 3, August 1991 (1991-08), pages 681-685, XP002254358 ISSN: 0300-5127 page 1991 first column -----</p>	1-21

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/D/00398

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5800849	A	01-09-1998	AT 188347 T	15-01-2000
			AU 677652 B2	01-05-1997
			AU 6563994 A	21-11-1994
			CN 1121686 A ,B	01-05-1996
			DE 69422514 D1	10-02-2000
			DE 69422514 T2	06-07-2000
			WO 9424880 A1	10-11-1994
			DK 700253 T3	25-04-2000
			EP 0700253 A1	13-03-1996
			ES 2143545 T3	16-05-2000
			GR 3032856 T3	31-07-2000
			PT 700253 T	28-04-2000

WO 0202597	A	10-01-2002	AU 2352201 A	16-07-2001
			AU 6733701 A	14-01-2002
			CA 2412882 A1	10-01-2002
			WO 0149830 A2	12-07-2001
			WO 0202597 A2	10-01-2002
			EP 1246915 A2	09-10-2002
			EP 1299535 A2	09-04-2003
			US 2002127219 A1	12-09-2002
			US 2003036181 A1	20-02-2003
			AU 3153101 A	20-08-2001
			WO 0158493 A1	16-08-2001
			US 2002127652 A1	12-09-2002

EP 0123928	A	07-11-1984	EP 0123928 A2	07-11-1984
			FI 841288 A	01-10-1984
			NO 841276 A	01-10-1984

WO 0114571	A	01-03-2001	AU 6678000 A	19-03-2001
			WO 0114571 A1	01-03-2001
			CA 2381438 A1	01-03-2001
			EP 1216306 A1	26-06-2002

WO 02063015	A	15-08-2002	WO 02063015 A1	15-08-2002

WO 03054186	A	03-07-2003	WO 02068623 A2	06-09-2002
			WO 03054186 A1	03-07-2003
